

# TENSITRON®

A KTC Instruments Company



## LX-1 SERIES

MEDIUM-SIZED WIRE AND CABLE TENSION METER

### RELIABLE TENSION TESTING

Improve quality and process control when measuring tension on a wide range of flat or round materials, moving or static. Take the guesswork out of tension measurement by using the LX-1 to check the tension on copper wire 1 to 19 AWG, tape or bands up to 1" wide, steel wire up to .08", and braided cable up to 1/4". Ideal for coil winding, EDM wire, textile manufacturing, and more.



#### FAST

Quickly test control wire and cable tension

- Quick, easy, one-handed operation
- Color-bar graphic provides quick visual of tension
- Data averaging function evens out readings in fast-moving applications



#### ACCURATE

Improve safety and performance

- Custom-calibrated for your application
- Tension ranges from .5 lb to 500 lb.
- Selectable units (lb., kg, or daN)



#### DEPENDABLE

Save time and costs with durable construction

- Long-lasting, durable construction
- Onboard data statistics
- Includes carrying case and NIST-traceable calibration certificate



#### CONVENIENT

User-friendly and easy to transport

- Continuous or single-point data storage
- Lightweight, portable
- Analog or serial output (optional)
- Easy-to-read, digital display



## SPECIFICATIONS

- ACCURACY** +/- 2% full-scale. Accuracy may differ depending on material measured.
- BATTERY** NiMH (NOT lithium ion). Rechargeable. Up to 8 hours continuous use per charge.
- DATA OUTPUT** Analog Output (Option A) or RS-232 Serial Output (Option E).
- ROLLERS** Standard rollers are radiused—curved and measure round materials up to 5/16" (8mm) diameter. For flat materials, order 1" cylindrical rollers (Option R).
- WARRANTY** One year against factory defects.



**EQUIPPED WITH ROLLERS FOR MEASURING MOVING MATERIALS.  
FOR AIRCRAFT CABLES AND OTHER STATIONARY CABLES USE AN ACX-1.**

STYLE	MODEL	RANGE	TOLERANCE	RESOLUTION	CALIBRATION
LOW-TENSION (5.5" wide)	LX-25-1	2 - 25 lb.	+/-0.5	0.2 lb.	<p><b>LX-1 meters are custom-calibrated for each material to be measured.</b></p> <p>Up to 10 calibrations are available. A 10-foot sample of each material will be needed for the calibration.</p>
	LX-50-1	5 - 50 lb.	+/- 1 lb.	0.2 lb.	
	LX-100-1	5 - 100 lb.	+/- 2 lb.	0.2 lb.	
STANDARD (5.5" wide)	LX-250-1	5 - 250 lb.	+/- 5 lb.	0.2 lb.	
	LX-500-1	25 - 500 lb.	+/- 10 lb.	1 lb.	
WIDE (8.5" wide) <i>Recommended for large or stiff materials</i>	LX-100-W-1	5 - 100 lb.	+/- 2 lb.	0.2 lb.	
	LX-250-W-1	5 - 250 lb.	+/- 5 lb.	0.2 lb.	
	LX-500-W-1	25 - 500 lb.	+/- 10 lb.	1 lb.	

\*Contact Tensitron about measuring more rigid materials and/or diameters up to 3/4 in. (19mm)

## RECOMMENDED MAXIMUM DIAMETERS FOR EXAMPLE MATERIALS

STYLE	MODEL	SOLID COPPER WIRE	SOLID STEEL WIRE	STRANDED STEEL CABLE	TAPE, CARBON FIBER, FIBERGLASS ROVING, FIBER TOW, ETC.
LOW-RANGE (5.5" wide)	LX-25-1 LX-50-1 LX-100-1	12 AWG (2mm)	.04 in. (1mm)	7x19: 5/32" (4 mm) 7x7: 1/8" (3mm)	Select meter according to tension.
STANDARD (5.5" wide)	LX-250-1 LX-500-1	12 AWG (2mm)	.04 in. (1mm)	7x19: 5/32" (4 mm) 7x7: 1/8" (3mm)	
WIDE (8.5" wide)	LX-100-W-1 LX-250-W-1 LX-500-W-1	6 AWG (4mm)	.08 in. (2mm)	7x19: 1/4" (6 mm)	May require custom rollers (see "Options" below).